







# Section 10: National Defense



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## Section 10

# NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard expenditures and strength, civilian employment in national defense, veterans, land controlled by the U.S. Department of Defense (DOD), military housing, and expenditures by the armed forces. Additional information appears in sections 1, 2, 9, 12, and 23.

The Hawaii State Department of Business, Economic Development & Tourism (DBEDT) has compiled periodic reports on military personnel and dependents since 1959. Other published sources include reports of the DOD, U.S. Census Bureau, U.S. Department of Veterans Affairs, the Hawaii State Department of Labor and Industrial Relations and the Hawaii State Department of Defense. Definitions used by these sources differ to some degree, and care is necessary in comparing data issued by two or more agencies. *Historical Statistics of Hawaii*, Section 26, includes series on the armed forces dating back to 1795. Section 11 of the *Statistical Abstract of the United States: 1999* presents data on national defense and veterans affairs for other states and the U.S. as a whole.

**Table 10.01-- HAWAII RESIDENTS ON ACTIVE DUTY WITH THE U.S. ARMED FORCES WORLDWIDE: 1950 TO 1995**

[As of June 30, unless otherwise specified. 1950-1979 based on pre-service residence;  
1980-1995, on home of record]

Year	Number	Year	Number	Year	Number
1950	7,699	1966	15,875	1981	11,927
1951	10,958	1967	18,048	1982	11,926
1952	16,594	1968	22,433	1983	11,641
1953	16,217	1969	15,856	1984	11,466
1954	16,189	1970	15,331	1985	10,827
1955	15,175	1971	13,600	1986	10,882
1956	15,243	1972	11,600	1987	10,896
1957	14,687	1973	10,200	1988	10,548
1958	13,310	1974	10,810	1989 2/	10,501
1959	12,596	1975	10,640	1990	10,052
1960 1/	12,662	1976	10,600	1991	10,076
1961	11,340	1977	10,640	1992	8,432
1962	13,464	1978	10,715	1993	7,621
1963	14,944	1979 1/	11,069	1994	5,098
1964	15,000	1980	11,851	1995 3/	4,237
1965	15,109				

1/ As of March 31 or April 1.

2/ U.S. military personnel stationed abroad as of December 31, 1989 included 3,782 whose home of record was Hawaii and 5,049 whose last duty station was Hawaii (data from U.S. Bureau of the Census, Press Clippings, CB90-28, July 23, 1990).

3/ For 1995, Defense Manpower Data Center does not include home-of-record for U.S. Air Force.

Source: 1950-1969 estimates by U.S. Bureau of the Census, in Hawaii State Department of Planning and Economic Development, *Military Personnel and Dependents in Hawaii, July 1977* (Statistical Report 120, September 9, 1977), table 5; 1970-1995 from U.S. Department of Defense, Defense Manpower Data Center, records.

**Table 10.02-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES:  
1980 TO 1998**

[Includes Navy, Marine Corps, and Coast Guard personnel afloat on a homeported basis. Data differ from similar series compiled by the Bureau of the Census and Department of Defense]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1980: April 1	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1	125,273	59,021	53,755	5,266	66,252	26,791
1984: July 1	127,887	60,804	56,321	4,483	67,083	31,415
1985: July 1	122,286	58,005	53,848	4,157	64,281	29,997
1986: July 1	124,794	58,584	53,616	4,968	66,210	29,481
1987: July 1	125,127	60,277	56,322	3,955	64,850	32,038
1988: July 1	133,958	64,053	60,621	3,432	69,905	34,535
1989: July 1	116,644	56,370	53,263	3,107	60,274	31,652
1990: April 1	113,833	53,898	50,681	3,217	59,935	30,934
1991: July 1	117,141	53,813	51,197	2,616	63,328	28,655
1992: July 1	109,959	52,965	50,206	2,759	56,994	23,751
1993: July 1 2/	107,603	45,437	44,152	1,285	62,166	25,952
1994: July 1	98,531	44,193	42,790	1,403	54,338	27,478
1995: July 1 3/	92,490	45,971	43,839	2,132	46,519	21,700
1996: July 1	98,356	43,019	40,457	2,562	55,337	24,667
1997: July 1 4/	97,344	41,769	38,884	2,885	55,575	22,996
1998: July 1 5/	101,311	40,773	37,761	3,012	60,538	24,965

1/ Beginning in 1982, ship crews living ashore are included with the total ashore.

2/ Air Force and Marine Corps data for 1993 partly estimated.

3/ Coast Guard and Marine Corps data for 1995 partly estimated.

4/ Coast Guard and Marine Corps data for 1997 estimated.

5/ Air Force and Army data for 1998 partly estimated.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers.

**Table 10.03-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES,  
BY SERVICE AND ISLAND: JULY 1, 1999 AND 2000**

[Includes Navy, Marine Corps, and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense]

Island and service	Personnel and dependents	Military personnel				Dependents in Hawaii	Military families
		Ashore and afloat	Living ashore		Living aboard ship		
			In hsg. units	In barracks			
1999							
State total	78,812	34,462	22,726	11,575	5,926	44,350	25,678
By island:							
Oahu	78,383	34,288	22,597	11,536	5,920	44,095	25,567
Hawaii	102	42	31	5	6	60	23
Maui	65	26	22	4	-	39	13
Kauai	262	106	76	30	-	156	75
By service:							
Air Force: 1/	10,318	3,866	3,129	737	-	6,452	2,814
Army: 2/	30,715	15,790	11,191	4,599	-	14,925	9,667
Coast Guard:	2,786	1,255	1,060	91	104	1,531	781
Marine Corps: 3/	11,927	6,213	2,577	3,636	-	5,714	2,722
Navy: 3/	23,066	4/ 7,338	4,769	2,512	5,822	15,728	9,694
2000							
State total	78,346	35,813	23,241	12,642	6,394	42,533	23,034
By island:							
Oahu	77,918	35,637	23,109	12,598	6,394	42,281	22,922
Hawaii	104	44	33	11	-	60	24
Maui	63	25	22	3	-	38	14
Kauai	261	107	77	30	-	154	74
By service:							
Air Force: 1/	10,835	4,492	3,708	784	-	6,343	2,745
Army: 2/	29,743	15,474	10,829	4,645	-	14,269	9,455
Coast Guard: 3/	2,491	1,091	891	96	104	1,400	610
Marine Corps: 3/	12,117	7,115	3,106	4,009	-	5,002	2,287
Navy: 3/	23,160	4/ 7,641	4,707	3,108	6,290	15,519	7,937

1/ Estimated. Not included are 15 Air Force personnel living in housing units on Johnston Atoll.

2/ Estimated. Also, no new information was available for the island of Hawaii so the 1998 figures were used as an estimate. In 1998, there were 263 Army personnel living in barracks on Johnston Island (which includes Kwajalein, Pago Pago and Alaska) and 64 Army personnel stationed in Hawaii and living in housing units, but with duty locations in Guam or foreign countries. These Army personnel are not included in the annual tables shown above and the figures for 1998 are listed in this footnote because no new information was available for 1999.

3/ Estimated.

4/ The total number of navy military personnel is not sum to the total of personnel living in housing units, in barracks and aboard ship. This is because navy personnel assigned to ships on a specified date may also have another place to live elsewhere in Hawaii. Therefore, they may be counted more than once in the type of residence columns.

Source: Hawaii State Department of Business, Economic Development & Tourism, annual survey of local commanding officers.

**Table 10.04-- DEPARTMENT OF DEFENSE PERSONNEL  
AND DEPENDENTS: 1989 TO 1999**

[As of September 30. Includes personnel performing Civil Functions, primarily those associated with the Army Corps of Engineers. Excludes Coast Guard]

Year	Total	Active-duty shore-based military personnel 1/	Dependents of active-duty military personnel 2/	Direct-hire civilian personnel
1989	120,905	45,935	54,724	20,246
1990	113,471	41,887	51,727	19,857
1991	113,076	44,092	50,006	18,978
1992	110,428	44,864	47,671	17,893
1993	105,911	42,958	45,612	17,341
1994	99,188	42,161	39,989	17,038
1995	114,139	38,172	58,788	17,179
1996	111,002	36,392	57,786	16,824
1997	109,762	34,826	57,720	17,216
1998	104,018	34,643	52,643	16,732
1999	100,084	32,708	51,063	16,313

1/ Excludes Navy personnel afloat or temporary shore-based, e.g., 5,600 in 1995.

2/ Includes dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information, Operations and Reports, *Department of Defense Selected Manpower Statistics* (annual), and at <<http://web1.whs.osd.mil/diorhome.htm>> and at <<http://web1.whs.osd.mil/mmids/mo1/fy96>>; for 1997 <<http://web1.whs.osd.mil/mmids/m02/97city.htm>>, June 8, 1998. For 1998: *Worldwide Manpower Distribution by Geographical Area, September 30, 1998* (p. 1) and <<http://web1.whs.osd.mil/mmids/m05sep98.pdf>>. For 1999: *Worldwide Manpower Distribution by Geographical Area, September 30, 1999* (p. 1) and <<http://web1.whs.osd.mil/mmids/m05sep99.pdf>>.

**Table 10.05-- DEPARTMENT OF DEFENSE PERSONNEL AND  
MILITARY DEPENDENTS, BY SERVICE: SEPTEMBER 30, 1998 AND 1999**

[As of September 30. Includes personnel performing Civil Functions, primarily those associated with the Army Corps of Engineers. Excludes Coast Guard. 1998 data have been disaggregated]

Category	All services	Army	Navy	Air Force	Marine Corps	Other DOD
1998						
Total	104,018	44,311	34,131	12,408	12,101	1,067
Total military and dependents	87,286	39,874	24,894	10,417	12,101	(NA)
Military personnel 1/	34,643	15,133	7,882	4,547	7,081	(NA)
Dependents 2/	52,643	24,741	17,012	5,870	5,020	(NA)
Command-sponsored	49,447	24,741	15,127	5,769	3,810	(NA)
Non-command-sponsored	3,196	-	1,885	101	1,210	(NA)
Direct-hire civilians 3/	16,732	4,437	9,237	1,991	(NA)	1,067
1999						
Total	100,084	42,749	32,311	12,759	11,135	1,130
Total military and dependents	83,771	38,456	23,447	10,733	11,135	(NA)
Military personnel 1/	32,708	14,692	7,397	4,483	6,136	(NA)
Dependents 2/	51,063	23,764	16,050	6,250	4,999	(NA)
Command-sponsored	48,344	23,764	14,753	6,164	3,663	(NA)
Non-command-sponsored	2,719	-	1,297	86	1,336	(NA)
Direct-hire civilians 3/	16,313	4,293	8,864	2,026	(NA)	1,130

NA Not available.

1/ Active duty. Data exclude personnel afloat or temporary shore-based.

2/ Dependents of active-duty military personnel. Command-sponsorship depends upon whether the dependent resides with the member at the duty station, whether the accompanied tour is authorized and meets criteria for funded travel and station allowance.

3/ Source data includes Marine Corps with Navy. 1998 Navy data includes 1 foreign national direct hire.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Worldwide Manpower Distribution by Geographical Area, September 30, 1998* (pp. 1, 27, 31, 34, and 41) and <<http://web1.whs.osd.mil/mmids/m05sep98.pdf>>. For 1999: *Worldwide Manpower Distribution by Geographical Area, September 30, 1999* (pp. 1, 8, 18, 20, 22, 24, 28, 32, 36, 40, and 44-45; and <<http://web1.whs.osd.mil/mmids/m05sep99.pdf>>.



**Table 10.06-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND  
CIVILIAN, BY SELECTED LOCATIONS: SEPTEMBER 30, 1999**

<b>Installation or geographic area</b>	<b>Total DOD</b>	<b>Military personnel 1/</b>	<b>Civilian personnel 2/</b>
State total	48,672	32,354	16,318
Aiea	464	245	219
Barbers Point NAS	557	299	258
Camp H.M. Smith	919	829	90
Ford Island	384	128	256
Fort Shafter	2,529	1,207	1,322
Hickam AFB	5,358	3,446	1,912
Honolulu	472	267	205
Kaneohe	6,846	6,244	602
Kunia	2,026	1,959	67
Lualualei	315	110	205
Pearl Harbor	12,291	4,696	7,595
Schofield Barracks	11,691	10,587	1,104
Tripler Army Med Ctr	1,986	778	1,208
Wahiawa	546	406	140
Wheeler AFB/Army Fld	1,519	958	561
Kauai Island	540	109	431
Other	229	86	143

1/ Active duty. Navy figure includes Marine Corps and excludes personnel afloat or temporary shore-based.

2/ Direct hire. Army data include civil function personnel.

Source: U.S. Office of the Secretary of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports at <<http://web1.whs.osd.mil/mmids/m02/fy99/99city.htm>>.

**Table 10.07-- FEDERAL DEFENSE EXPENDITURES ON HAWAII GROSS  
STATE PRODUCT AND EMPLOYMENT: 1985 TO 1999**

[In millions of dollars unless otherwise indicated]

Year	Gross State Product (GSP) 1/	Federal Defense				
		Expenditures			Employment	
		Total 1/	Percent change from year previous	As percent of GSP 2/	Civilian jobs	Armed forces 3/
1985	18,664.2	3,111.6	17.3	14.7	20,750	56,383
1986	19,850.0	3,098.6	-0.4	13.8	20,400	58,122
1987	21,563.1	3,077.6	-0.7	12.6	20,100	58,122
1988	23,916.6	3,188.4	3.6	11.8	20,200	56,815
1989	26,447.0	3,295.9	3.4	11.0	20,100	56,360
1990	29,091.2	3,346.2	1.5	10.2	19,350	55,222
1991	30,730.0	3,648.2	9.0	10.5	18,850	54,738
1992	32,505.2	3,837.4	5.2	10.4	18,100	55,099
1993	33,532.1	3,759.6	-2.0	9.9	17,450	52,674
1994	34,354.6	3,876.8	3.1	10.0	16,850	52,845
1995	34,526.4	3,782.5	-2.4	9.7	16,750	50,729
1996	34,893.5	3,883.5	2.7	9.8	16,800	47,986
1997	35,871.1	4,074.9	4.9	10.0	16,300	44,542
1998	36,537.6	4,103.7	0.7	9.9	16,050	44,984
1999	37,807.9	4,174.2	1.7	9.8	15,750	41,361

1/ Data for 1985 through 1998 have been revised.

2/ Expenditures adjusted for imports before dividing by GSP.

3/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. See table 1.03 for historical data.

Source: Hawaii State Department of Business, Economic Development & Tourism, records.

**Table 10.08-- FEDERAL EXPENDITURES FOR ARMY AND AIR  
NATIONAL GUARD FOR HAWAII: 1998 AND 1999**

[In dollars. Fiscal year ended September 30]

Category	1998		1999	
	Army	Air	Army	Air
Total Federal support for National Guard in Hawaii	62,114,696	90,481,934	70,991,712	127,321,884
Total Funds allotted by National Guard to Hawaii	44,431,767	70,700,899	55,668,405	86,801,786
National Guard Personnel Appropriation	9,320,398	1,498,488	14,644,570	1,563,315
Military pay, transportation, and subsistence	8,433,186	1,040,985	13,863,825	1,200,902
Military uniform	579,530	355,779	452,392	199,368
Subsistence	307,682	101,724	328,353	163,045
Oper. and maint., military constr. approp. - Army	32,745,755	69,202,411	41,023,835	85,238,471
Civilian pay	14,956,832	39,611,797	15,899,651	41,090,545
Transportation and travel	1,275,763	633,352	4,319,055	1,328,988
Personnel	336,511	597,410	329,621	1,277,173
Equipment and supplies	939,252	35,942	3,989,434	51,815
Equipment, supplies and service	5,534,372	28,957,262	9,533,014	42,818,938
Organizational equipment	701,377	656,630	1,105,660	602,547
Petroleum, oils and lubricants	348,341	(NA)	539,377	(NA)
Repair parts and services	1,938,084	(NA)	3,760,807	(NA)
Other operating supplies and services	2,546,570	(NA)	4,127,170	(NA)
Supplies	(NA)	4,524,488	(NA)	4,302,743
Depot level repairables	(NA)	12,249,912	(NA)	22,822,651
Aviation fuel	(NA)	0	(NA)	0
Other operating supplies and services	(NA)	1,663,648	(NA)	1,851,714
Construction repairs	(NA)	9,862,584	(NA)	13,239,283
Major construction	(NA)	7,254,127	(NA)	10,895,657
Major construction/major repairs	(NA)	1,177,548	(NA)	801,714
Operations and maintenance agreements	(NA)	1,430,909	(NA)	1,541,912
Construction, repairs, and utilities	10,978,788	(NA)	11,272,115	(NA)
Armory construction	4,305,704	(NA)	0	(NA)
Architectural and engineering services	249,397	(NA)	2,554,857	(NA)
Non-armory construction	2,102,843	(NA)	6,407,740	(NA)
Maintenance, repairs, and minor construction	4,154,779	(NA)	1,874,918	(NA)
Utilities	166,065	(NA)	434,600	(NA)
Oper. & maint. Def. Approp.-Army Youth ChalleNGe	2,365,614	(NA)	1,896,667	(NA)
Total Funded directly by National Guard Bureau	17,682,929	19,781,035	17,781,426	20,260,049
Army drill pay	7,163,508	(NA)	7,009,256	(NA)
AGR pay	10,519,421	(NA)	10,772,170	(NA)
Annual training pay	(NA)	2,287,224	(NA)	2,790,160
Other active duty pay	(NA)	2,321,827	(NA)	2,439,169
Inactive duty training pay	(NA)	6,720,394	(NA)	6,941,830
Basic training pay	(NA)	803,083	(NA)	841,498
Active Guard Reserve pay	(NA)	7,256,542	(NA)	7,247,394

NA Not available.

Source: Hawaii Department of Defense, *Annual Report Fiscal Year 1998*, p. 48; and 1999, p. 49.

**Table 10.09-- NATIONAL GUARD STRENGTH: 1980 TO 1999**

[Strength as of September 30]

Year	Actual strength			Authorized strength		
	Total	Army National Guard	Air National Guard	Total	Army National Guard	Air National Guard
1980	5,378	3,468	1,910	6,090	4,053	2,037
1981	5,338	3,395	1,943	6,216	4,181	2,035
1982	5,720	3,698	2,022	6,238	4,201	2,037
1983	5,799	3,768	2,031	6,127	4,012	2,115
1984	5,866	3,793	2,073	6,207	3,992	2,215
1985	6,096	3,869	2,227	6,227	4,005	2,222
1986	5,882	3,685	2,197	6,250	4,016	2,234
1987	5,848	3,654	2,194	6,517	4,237	2,280
1988	5,832	3,658	2,174	6,461	4,160	2,301
1989	5,810	3,641	2,169	6,505	4,154	2,351
1990	5,702	3,579	2,123	6,469	4,237	2,232
1991	5,635	3,547	2,088	6,473	4,252	2,221
1992	5,665	3,500	2,165	6,480	4,258	2,222
1993	5,689	3,430	2,259	6,490	4,056	2,434
1994	5,689	3,430	2,259	6,490	4,056	2,434
1995	6,078	3,744	2,334	7,061	4,462	2,599
1996	5,381	2,995	2,386	6,025	3,564	2,461
1997	5,511	3,120	2,391	6,047	3,543	2,504
1998	5,475	3,053	2,422	6,047	3,543	2,504
1999	5,475	3,053	2,422	6,047	3,543	2,504

Source: Hawaii State Department of Defense, *Annual Report Fiscal Year* (annual).

**Table 10.10-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY,  
AND NAVY: ANNUAL AVERAGES, 1990 TO 1999**

<b>Year</b>	<b>Total</b>	<b>Air Force</b>	<b>Army</b>	<b>Navy</b>
1990	19,350	2,300	5,600	11,450
1991	18,850	2,250	5,400	11,200
1992	18,100	2,200	4,800	11,100
1993	17,450	2,150	4,600	10,700
1994	16,850	2,000	4,600	10,250
1995	16,750	2,100	4,450	10,200
1996	16,800	2,100	4,850	9,850
1997	16,300	2,050	5,000	9,250
1998	16,050	2,050	4,900	9,100
1999	15,750	2,050	4,700	9,000

Source: Hawaii State Department of Labor and Industrial Relations, *Labor Force Data Book*, May 1997, p. 11; <<http://www.state.hi.us/dlir/loihi/LFR/cst1998b.txt>>; <<http://www.state.hi.us/dlir/loihi/LFR/cst1999.txt>>; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.11-- MILITARY ACCESSIONS IN HAWAII, BY BRANCH OF SERVICE:  
1978 TO 1997**

[In fiscal year October 1 to September 30. Includes prior service accessions]

Year	Total accessions	Army	Navy	Air Force	Marine Corps
1978	1,751	748	336	520	147
1979	1,648	660	334	482	172
1980	1,518	712	317	364	125
1981	1,451	603	317	427	104
1982	1,183	550	195	363	75
1983	1,098	563	154	313	68
1984	1,296	644	243	308	101
1985	1,268	597	250	349	72
1986	1,341	554	305	387	95
1987	1,125	497	272	268	88
1988	907	397	246	180	84
1989	833	387	201	145	100
1990	578	220	186	108	64
1991	455	158	126	110	61
1992	421	124	121	123	53
1993	394	137	113	114	30
1994	338	124	80	93	41
1995	347	135	112	78	22
1996	516	198	108	154	56
1997	733	293	146	224	70

Source: U.S. Department of Defense, Defense Manpower Data Center (DMDC), DMDC Data Archive Request <<http://www.dmdc.osd.mil/ids/archive/accession.html>>, accessed August 3, 1999.

**Table 10.12-- SELECTIVE SERVICE REGISTRATION IN HAWAII: 1999**

[Percentage of eligible young men born in 1980 registered through calendar year. Rank is among the 50 states. Rank of 1 has the highest percentage of eligible men registered]

Area	United States Average	Hawaii
Percent registered 1/ Rank	88 ...	73 50

1/ Hawaii is not among the 26 states that have enacted legislation supporting registration.

Source: Selective Service System, *Annual Report to Congress for Fiscal Year 1999*,  
<<http://www.sss.gov/public.html>> and <<http://www.sss.gov/newsconf17may/main.html>> accessed  
May 19, 2000.

**Table 10.13-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM:  
1995 TO 1999**

[In thousands of dollars. Fiscal years ended September 30.  
Net value of Department of Defense prime contracts over \$25,000]

Procurement program 1/	1995	1996	1997	1998	1999
Total	673,640	928,480	957,353	889,607	984,848
Airframes and spares	-	39	581	877	-
Aircraft engines and spares	-	89	-	-	-
Other aircraft equipment	34	67	-	831	-
Missile and space systems	20,452	6,088	9,694	7,843	6,901
Ships	23,789	18,140	18,394	7,692	24,880
Non-combat vehicles	-	-	-	41	28
Ammunition	-	-	-	85	-
Electronics and communication equip.	26,485	30,838	36,222	38,840	38,342
Petroleum	34,574	33,633	47,883	44,523	42,129
Containers and hauling equipment	1,039	-	-	-	-
Textiles, clothing, and equipage	75	124	-	-	-
Building supplies	747	584	576	352	333
Subsistence	11,544	8,436	9,158	20,623	25,729
Production equipment	-	-	64	-	-
Construction 2/	318,231	513,290	524,134	469,862	548,100
Construction equipment	-	-	124	1,990	834
Medical and dental supplies and equip.	1,245	6,255	5,823	7,580	8,938
Photographic supplies and equipment	45	-	-	29	-
Materials handling equipment	-	1,629	8,089	411	1,331
All other supplies and equipment	34,841	55,974	40,487	32,747	62,110
Services	200,537	253,294	256,123	255,280	225,195

1/ Procurement programs with no expenditures for the 1995-99 period are: Combat vehicles, Weapons, Other fuels and lubricants and Transportation equipment.

2/ In FY99, Hawaii had 5.4 percent of the United States total, placing as the 4th highest state.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Prime Contract Awards by Region and State, Fiscal Years 1993, 1992, and 1991*, p. 29; and <<http://web1.whs.osd.mil/peidhome/geostats/P06/fy1999/p06.htm>>.



**Table 10.14-- UNITED STATES DEPARTMENT OF DEFENSE  
PROCUREMENT AWARDS, BY COUNTY,  
BY DEFENSE COMPONENT: 1999**

[In thousands of dollars. Fiscal years ended September 30.  
Net value of Department of Defense prime contracts over \$25,000]

Procurement program 1/	State	Hawaii	Honolulu	Kauai	Maui
Total	984,848	8,302	917,732	34,065	24,749
Army	229,131	4,549	222,384	1,639	558
Navy	569,599	940	536,163	32,426	70
Air Force	92,311	2,383	66,031	-	23,896
Defense Logistics Agency	68,682	61	68,621	-	-
Civil Functions	2,492	157	2,110	-	225
Unallocated 1/	22,633	212	22,423	-	-

1/ Addendum so components sum to source total. Await confirmation from U.S. Department of Defense.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Prime Contract Awards by Region and State, Fiscal Year 1999*.  
[http://web1.whs.osd.mil/peidhome/geostats/p09/Fy1999/P09tab6\\_99.htm](http://web1.whs.osd.mil/peidhome/geostats/p09/Fy1999/P09tab6_99.htm)

**Table 10.15-- MILITARY SUBCONTRACTING PROGRAM: 1998**

[In thousands of dollars and percent. Fiscal years ended September 30. Public Law 95-507, as amended, requires large business firms that have received at least one contract over \$500,000, or \$1,000,000 for construction, to establish a subcontracting program]

<b>Procurement program 1/</b>	<b>Total</b>	<b>Air Force</b>	<b>Army</b>	<b>Defense Logistics Agency</b>	<b>Navy</b>
<b>Hawaii total contracts</b>	217,333	-	14,173	267	200,018
Large business	67,116	-	5,974	140	59,692
Small business	150,217	-	8,199	127	140,326
Small disadvantaged business	46,841	-	3,068	9	42,760
Women-owned business	24,077	-	269	2	23,737
Historically Black Colleges and Universities/Minority Institutions	-	-	-	-	-
<b>Hawaii contracts as percent of total</b>	100.0	-	100.0	100.0	100.0
Large business	30.9	-	42.2	52.4	29.8
Small business	69.1	-	57.8	47.6	70.2
Small disadvantaged business	21.6	-	21.6	3.4	21.4
Women-owned business	11.1	-	1.9	0.7	11.9
Historically Black Colleges and Universities/Minority Institutions	-	-	-	-	-
<b>United States total contracts</b>	46,464,777	567,919	3,326,367	37,299,757	5,270,734
Large business	26,379,447	250,167	1,404,514	22,274,976	2,449,790
Small business	20,085,330	317,752	1,921,853	15,024,781	2,820,944
Small disadvantaged business	2,799,861	62,739	297,274	2,049,154	390,694
Women-owned business	2,214,010	46,613	218,159	1,631,204	318,034
Historically Black Colleges and Universities/Minority Institutions	17,324	57	428	15,977	862
<b>U.S. contracts as percent of total</b>	100.0	100.0	100.0	100.0	100.0
Large business	56.8	44.0	42.2	59.7	46.5
Small business	43.2	56.0	57.8	40.3	53.5
Small disadvantaged business	6.0	11.0	8.9	5.5	7.4
Women-owned business	4.8	8.2	6.6	4.4	6.0
Historically Black Colleges and Universities/Minority Institutions	1/	1/	1/	1/	1/

1/ Less than 0.1.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, *Companies Participating in the Department of Defense Subcontracting Program: 1998* and <<http://web1.whs.osd.mil/peidhome/procstat/p14/py14menu.htm>>.

**Table 10.16-- NUCLEAR WEAPONS: 1985, 1992, AND 1998**

Year	Number of weapons	Rank 1/
1985	345	14
1992	275	17
1998	-	15-50

1/ Rank is among the 50 states where 1 indicated the greatest number. In 1998, since only 14 states were identified as having nuclear weapons, the remainder were tied at 15-50.

Source: Natural Resource Defense Council, cited in *Honolulu Star-Bulletin*, October 7, 1998, p. A-3 and <<http://www.ndrc.org/nuclear/default.asp>> and for 1998 <<http://www.ndrc.org/nuclear/tkstock/tssum.asp>> accessed May 31, 2000.

**Table 10.17-- ACREAGE OWNED OR CONTROLLED BY THE U.S.  
OF DEFENSE, BY BRANCH OF SERVICE AND  
BY ISLANDS: 1992**

Branch of service and island	Total acreage	Owned in fee or ceded	Leased land
All branches	238,937	167,248	71,689
Branch of service:			
Air Force	5,867	5,286	581
Army	151,927	105,633	46,294
Marines	27,950	3,643	24,307
Navy	53,193	52,686	507
Island:			
Hawaii	101,882	84,822	17,060
Maui	8	5	3
Kahoolawe	28,777	28,777	-
Lanai	-	-	-
Molokai	6,319	12	6,307
Oahu	81,459	51,602	29,857
Kauai	20,384	1,922	18,462
Niihau	-	-	-
Kaula	108	108	-
Northwestern Hawaiian Islands, exc. Midway	-	-	-

Source: *The Honolulu Advertiser*, November 16, 1992, p. A2.

**Table 10.18-- MILITARY INSTALLATIONS BY BRANCH OF SERVICE  
IN THE UNITED STATES AND HAWAII: SEPTEMBER 30, 1995**

<b>Branch of service</b>	<b>Total</b>	<b>Army</b>	<b>Army National Guard</b>	<b>Navy</b>	<b>Air Force</b>	<b>Marines</b>
United States	519	139	53	122	187	18
Hawaii	16	6	-	7	2	1

Source: US Department of Defense, U.S. Military Installations  
<<http://www.defenselink.mil/pubs/installations/index.html>> accessed April 28, 2000.

**Table 10.19-- MILITARY INSTALLATIONS BY BRANCH OF SERVICE, ACREAGE, PERSONNEL, AND  
CLASSIFICATION: SEPTEMBER 30, 1995**

Installation	City	Cate- gory 2/	Personnel			Acres	Major unit or activity
			Total	Military	Civilian		
ARMY			21,892	17,382	4,510	164,185	
Fort DeRussy	Honolulu	3	134	49	85	73	Army reserve
Fort Kamehameha	Honolulu	3	16	13	3	-	25th Infantry Division training
Fort Ruger	Honolulu	3	99	-	99	8	RC Headquarters
Fort Shafter	Honolulu	1	21,559	17,306	4,253	55,297	Headquarters & administration
Pohakuloa Training Area	Hilo	3	82	14	68	108,792	25th Infantry Division Training
Waianae	Waianae	3	2	-	2	15	25th Infantry Division Training
NAVY			26,263	18,062	8,201	28,965	
NAS, Barbers' Point 1/ Naval Computer & Telecomm, East Pac	Barbers' Point Wahaiwa	1 3	3,327 827	2,868 695	459 132	4,598 2,422	Patrol Aircraft Communications
Naval Magazine Lualualei	Lualualei	3	674	392	282	12,028	Ordnance support
Naval Station, Pearl Harbor	Pearl Harbor	1	10,075	8,033	2,042	6,077	Operating base
Naval Station, Pearl Harbor	Pearl Harbor	1	5,925	5,654	271	125	Submarine Forces support
PAC Missile Range Facility at Barking Sands	Kekaha	3	295	122	173	3,555	Operating base
Pearl Harbor Naval Shipyard	Pearl Harbor	2	5,140	298	4,842	160	Ship alteration & repair

Continued on next page.

**Table 10.19-- MILITARY INSTALLATIONS BY BRANCH OF SERVICE, ACREAGE, PERSONNEL, AND  
CLASSIFICATION: SEPTEMBER 30, 1995-- Con.**

Installation	City	Cate- gory 2/	Personnel			Acres	Major unit or activity
			Total	Military	Civilian		
AIR FORCE			4,646	3,293	1,353	2,862	
Hickam AFB	Honolulu	1	4,646	3,293	1,353	2,851	Headquarters PACAF, 15th Air Base Wing , 154 Wing (Air National Guard)
Kokee Air Force Station	Kekaha	3	-	-	-	11	150 Aircraft Control Warning Squadron (Air National Guard)
MARINES			9,592	8,505	1,087	34,526	
Marine Corps Base, Hawaii		1	9,592	8,505	1,087	34,526	
Camp Smith	Pearl City	1	(NA)	(NA)	(NA)	(NA)	HQ, FMFPAC
MCAF, Kaneohe Bay	Kailua	1	(NA)	(NA)	(NA)	(NA)	FMF Ground units/Helo Training OPS

1/ The Base Closures Commission recommendations listed this as "93C" indicating that in 1993 Barbers' Point was recommended for closure.

2/ Category refers to designation of installation as Classification 1 (major), 2 (minor) or 3 (support or other activities). Criteria are specific to each service but are generally based on number and type of personnel (Army) and/or type of equipment and activities (Navy, Air Force and Marines). For specifics, see U.S. Military Installations-Data Element Definitions at <<http://www.denenselink.mil/pubs/installations/terms.html>>.

Source: US Department of Defense, U.S. Military Installations <<http://www.defenselink.mil/pubs/installations/index.html>>, accessed April 28, 2000.

**Table 10.20-- HOUSING UNITS OWNED BY THE ARMED FORCES, BY  
SERVICE AND GEOGRAPHIC AREA: APRIL 1, 1995 TO 1998**

<b>Geographic area</b>	<b>All services</b>	<b>Air Force</b>	<b>Army</b>	<b>Coast Guard</b>	<b>Marine Corps</b>	<b>Navy</b>
1995						
State total	21,060	3,189	8,389	326	2,095	7,061
Oahu	20,971	3,189	8,386	309	2,095	6,992
Other islands	89	-	3	17	-	69
1996						
State total	20,824	2,675	8,641	316	2,095	7,097
Oahu	20,735	2,675	8,638	299	2,095	7,028
Other islands	89	-	3	17	-	69
1997						
State total	20,481	2,659	8,641	316	2,095	6,770
Oahu	20,392	2,659	8,638	299	2,095	6,701
Other islands	89	-	3	17	-	69
1998						
State total	20,616	2,659	8,847	342	2,041	6,727
Oahu	20,527	2,659	8,844	325	2,041	6,658
Other islands	89	-	3	17	-	69

Source: Hawaii State Department of Business, Economic Development & Tourism, *Statistical Report 230, Housing Unit Estimates for Hawaii, 1980-1995* (September 1996) and Ibid., survey of local housing agencies.



**Table 10.21-- VETERAN STATUS OF CIVILIANS 16 YEARS AND OVER:  
1970 TO 1998**

Veteran status	Civilian males		All civilians 1/				
	1970	1980	1980	1990	1995	1997	1998
Civilians 16 and over	223,573	316,651	665,036	801,517	(NA)	(NA)	(NA)
Veterans	89,098	98,633	103,774	119,256	116,000	114,000	113,000
War veterans 2/	75,026	82,230	85,322	87,301	85,000	84,000	83,000
Persian Gulf War	-	-	-	-	6,000	8,000	9,000
Vietnam era	20,548	36,441	38,136	41,860	42,000	42,000	42,000
Korean conflict	20,006	21,860	22,351	22,362	20,000	19,000	19,000
World War II	34,486	31,170	32,156	32,551	27,000	24,000	23,000
World War I	2,501	824	854	132	(Z)	(Z)	(Z)
Peacetime only	14,072	16,403	18,452	31,955	31,000	30,000	30,000
Nonveterans	134,475	218,018	561,262	682,261	(NA)	(NA)	(NA)

Z Less than 500.

NA Not available.

1/ Not available for female civilians before 1980.

2/ Detail adds to more than subtotal because some veterans served in more than one war.

Source: U.S. Bureau of the Census, *1970 Census of Population, PC(1)-C13*, table 50; *1980 Census of Population, PC80-1-D13*, table 204; *1990 Census of Population, Social and Economic Characteristics, Hawaii, 1990 CP-2-13* (Sept. 1993), table 23; 1990 Census of Population tapes tabulated by Hawaii State Data Center; *Statistical Abstract of the United States: 1997*, p. 365; *Ibid, 1998*, p. 369; *Ibid., 1999*, p. 379; and calculations by Hawaii State Department of Business, Economic Development & Tourism.

**Table 10.22-- WAR CASUALTIES OF HAWAII RESIDENTS IN THE ARMED FORCES: 1914 TO 1998**

War	Personnel serving	Battle deaths 1/	Nonbattle deaths	Wounded
World War I 2/	9,800	102		(NA)
World War II	36,777	658	138	(NA)
Korean conflict	25,000	403	(NA)	923
Vietnam conflict	12,970	221	51	(NA)
Persian Gulf War	2,839	1	-	(NA)

NA Not available.

1/ Data after World War II refer to deaths from hostile action.

2/ Data include nearly 200 Hawaii residents serving (and dying) with the British armed forces, many prior to the U.S. entry into World War I. Battle deaths of persons in the U.S. armed forces whose pre-service residence was Hawaii numbered 6.

Source: Robert C. Schmitt, "Hawaii's War Veterans and Battle Deaths", *The Hawaiian Journal of History*, vol. 32 (1998), pp. 171-174.

**Table 10.23-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM  
THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1999**

Service	Number of personnel		Monthly payment 2/ (\$1,000)	Average payment per person paid 3/ (dollars)
	Retired 1/	Paid by DOD		
Department of Defense	14,156	12,847	20,332	1,583
Officers	4,026	3,953	9,778	2,474
Nondisabled and reserve	3,830	3,775	9,345	2,475
Disabled	196	178	432	2,427
Enlisted	10,130	8,894	10,554	1,187
Nondisabled and reserve	9,147	8,431	10,215	1,212
Disabled	983	463	339	732
Department of Defense	14,156	12,847	20,332	1,583
Army	5,558	4,946	7,155	1,447
Officers	1,650	1,602	3,525	2,200
Enlisted	3,908	3,344	3,631	1,086
Navy	3,965	3,633	6,047	1,664
Officers	1,002	989	2,687	2,717
Enlisted	2,963	2,644	3,360	1,271
Marine Corps	979	881	1,639	1,860
Officers	295	292	828	2,836
Enlisted	684	589	811	1,377
Air Force	3,654	3,387	5,490	1,621
Officers	1,079	1,070	2,738	2,559
Enlisted	2,575	2,317	2,752	1,188
Addendum 4/ Coast Guard	245	236	446	1,890

1/ Includes retired personnel not receiving retired pay from the Department of Defense.

2/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc.

3/ Calculated by Hawaii State Department of Business, Economic Development & Tourism as Monthly Payment (in dollars) divided by Number Paid by DOD.

4/ Payments made by the U.S. Department of Transportation, shown for informational purposes only, and not included in the DOD totals. Coast Guard data are as of September 30, 1998.

Source: U.S. Department of Defense, Office of the Actuary, FY 1999 DOD Statistical Report on the Military Retirement System (1999), and e-mail from Office of the Actuary, September 11, 2000.